REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)

	In re Application o			
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PROCESSED BY	Application Number	of	Filed	
OCT 3 1 1997	07/337,	564	4/13/89	
FILL	Group Art Unit	Examiner		
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I hereby request access under 37 CFR 1.14(a identified ABANDONED application, which is:	(CHECK ONE)			
(A) referred to in United States Patent Nu	mber <u>520</u>	<u> </u>	, column,	
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(C) an application that claims the benefit of the filing date of an application that is open to public inspection, i.e., Application No, or				
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United States Patent [19]

Harari et al.

[56]

[11] Patent Number:

5,297,148

[45] Date of Patent:

Mar. 22, 1994

[54]	FLASH EEPROM SYSTEM		
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[73]	Assignce:	SunDisk Corporation, Santa Clara, Calif.	
[21]	Appl. No.:	963,838	
[22]	Filed:	Oct. 20, 1992	

Related U.S. Application Data

[62]	Division o	of Ser.	No.	337,566,	Apr.	13,	1989,	aban-
	doned.			•		•		

[51]	Int. Cl. ⁵	G06F 11/00
	U.S. Cl	
	•	371/10.3; 365/200
[40]	Evold of Course	271/102 101 102

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[57] ABSTRACT

A system of Flash EEprom memory chips with controlling circuits serves as non-volatile memory such as that provided by magnetic disk drives. Improvements include selective multiple sector erase, in which any combinations of Flash sectors may be erased together. Selective sectors among the selected combination may also be de-selected during the erase operation. Another improvement is the ability to remap and replace defective cells with substitute ceils. The remapping is performed automatically as soon as a defective cell is detected. When the number of defects in a Flash sector becomes large, the whole sector is remapped. Yet another improvement is the use of a write cache to reduce the number of writes to the Flash EEprom memory, thereby minimizing the stress to the device from undergoing too many write/erase cycling.

4 Claims, 5 Drawing Sheets

